Google Scholar BETA

"operating system" and task and "priority level "   Search

The "AND" operator is unnecessary -- we include all search terms by default. [details]

Scholar All articles - Recent articles Results 1 - 100 of about **3,500** for **"operating system" and task and "priority level " and high and low**. (**0.56** seconds)

Eliminating receive livelock in an interrupt-driven kernel- ·stanford.edu [PDF]
JC Mogul, KK Ramakrishnan - usenix.org
... begin by describing a typical **operating system's** structure for processing and
prioritizing network **tasks**. ... have a fixed Interrupt **Priority Level** (IPL), and ...
Cited by 357 - Related articles - Web Search - BL Direct - All 25 versions

Real-time scheduling theory and Ada- ·cmu.edu [PDF]
L Sha, JB Goodenough - Mission-Critical Operating Systems, 1992 - books.google.com
... A hardware timer or the **operating system** clock interrupt ... the execution of higher
priority **tasks**, **task** T executes at the highest **priority level** of all ...
Cited by 229 - Related articles - Web Search - Library Search - All 36 versions

[PDF] ·A Linux-based real-time operating system
M Barabanov - 1997 - citeseerx.ist.psu.edu
... The REAL/IX **operating system** from MODCOMP 4] is monolithic ... the lowest **priority level**. ...
Each real-time **task** was presented to the system as an object module in the ...
Cited by 188 - Related articles - View as HTML - Web Search - Library Search - All 20 versions

MANTIS OS: An embedded multithreaded operating system for wireless micro sensor platforms- ·rosejn.com [PDF]
S Bhatti, J Carlson, H Dai, J Deng, J Rose, A ... - Mobile Networks and Applications, 2005 - Springer
... head and tail pointers for each **priority level** (5 by ... MANTIS OS : AN EMBEDDED
MULTITHREADED **OPERATING SYSTEM** ... Any **task** that is sufficiently long-lived during its ...
Cited by 159 - Related articles - Web Search - All 14 versions

[PDF] ·A real-time Linux
V Yodaiken, M Barabanov - Proceedings of the Linux Applications Development and ..., 1997 - www-md.e-technik.uni-rostock.de
... 280 KHZ no matter what we do with the **operating system**. ... of the RT-process at a **low**
priority level the process ... Note that all **task** resources are statically dened ...
Cited by 113 - Related articles - View as HTML - Web Search - All 43 versions

StarOS, a multiprocessor operating system for the support of task forces
AK Jones, RJ Chansler Jr, I Durham, K Schwans, SR ... - Proceedings of the seventh ACM symposium on Operating ..., 1979 - portal.acm.org
... for memory references or microcoded **operating system** functions at ... construction and
execution of **task** forces and to ... called schedulers, and a **low** level mechanism ...

IBM Power5 chip: A dual-core multithreaded processor- *psu.edu [PDF]

R Kalla, B Sinharoy, JM Tendler - IEEE micro, 2004 - ieeexplore.ieee.org
... threads are at the lowest run- ning **priority** (**level** 1), the ... As in the dormant state,
the **operating system** ... all the system's execut- ing **tasks** perform better ...

The Stealth distributed scheduler

P Krueger, R Chawla - Distributed Computing Systems, 1991., 11th International ..., 1991 - ieeexplore.ieee.org
... While prioritized CPU schedulers are common, no previous **operating system** has included ...
Pages do not normally move from the **high** to the **low- priority level**. ...

An overview of the real-time CORBA specification- *kfupm.edu.sa [PDF]

DG Schmidt, F Kuhns - Computer, 2000 - ieeexplore.ieee.org
... (In the figure, red indicates the **operating system** and I ... such as **high**- versus
low-priority **tasks**, 1 and ... the amount of work performed at a given **priority level**. ...

On using priority inheritance in real-time databases- *kfupm.edu.sa [PDF]

J Huang, JA Stankovic, K Ramamritham, D Towsley - In Proc. Real-Time Systems Symposium, 1991 - eprints.kfupm.edu.sa
... and eventually return to its original **priority level** after using ... Unlike real-time
systems where **task** conict over ... built on top of the VAX/VMS **operating system**. ...

[PDF] *BERT: A scheduler for best effort and realtime tasks

A Bavier, L Peterson, D Mosberger - Department of Computer Science, Princeton University, ... - citeseerx.ist.psu.edu
... to run in the Scout **operating system** [9]; Section 3.1 ... both realtime and best effort
tasks; Section 3.2 ... this relationship to discriminate between **high** and **low** ...

Rate monotonic analysis for real-time systems- *cmu.edu [PDF]

L Sha, MH Klein, JB Goodenough - Foundations of Real-Time Computing: Scheduling and Resource ..., 1991 - books.google.com
... theory for its Hard Real-Time **Operating System** Project. ... the execution of higher priority
tasks, **task** T executes at the highest **priority level** of all ...

Making paths explicit in the Scout **operating system**- *rutgers.edu [PDF]

D Mosberger, LL Peterson - usenix.org
... may need to be done to discover **high**-priority work that ... an implementa- tion of paths
in the Scout **operating system**. ... that im- plements a specific **task**, such as ...

Transport system architecture services for high-performancecommunications systems- •wustl.edu [PDF]

DC Schmidt, T Suda - IEEE Journal on Selected Areas in Communications, 1993 - ieeexplore.ieee.org

... the protected address space of an **operating system**, application ... service that typically

uses "**high**- and **low** ... diiectional, connectional, message, **task** Event (I ...

Cited by 66 - Related articles - Web Search - BL Direct - All 27 versions

Fixed priority pre-emptive scheduling: An historical perspective

NC Audsley, A Burns, RI Davis, KW Tindell, AJ ... - Real-Time Systems, 1995 - Springer

... and Nicholson 1993), together with detailed **low**-level analysis of ... Further, **high**-level

semantic control-flow effects have ... where a process (or **task**) represents a ...

Cited by 266 - Related articles - Web Search - All 3 versions

Priority in DBMS resource scheduling- •psu.edu [PDF]

MJ Carey, R Jauhari, M Livny - Proceedings of the 15th VLDB Conference, 1989 - books.google.com

... Here, **task** priorities are determined internally (ie ... kernel schedules the CPU; the

operating system or DBMS ... of queries of each **priority level** running concurrently ...

Cited by 151 - Related articles - Web Search - Library Search - All 6 versions

High-performance operating system primitives for robotics and real-time control systems- •stevens-tech.edu [PDF]

K Schwan, T Bihari, BW Weide, G Taulbee - ACM Transactions on Computer Systems (TOCS), 1987 - portal.acm.org

... in the target parallel hardware and its **operating system**. ... models of, and constructs

for, **task** scheduling and ... or those required for servicing **high**-rate actuators ...

Cited by 58 - Related articles - Web Search - Library Search - All 12 versions

HRT-HOOD: A structured design method for hard real-time systems- •york.ac.uk [PDF]

A Burns, AJ Wellings - Real-Time Systems, 1994 - Springer

... activities out of some more primitive "**task**" activity produces ... At a **high** level of

design, a transaction ... language and the underlying **operating system** (or kernel ...

Cited by 260 - Related articles - Web Search - Library Search - BL Direct - All 16 versions

Fixed priority scheduling periodic tasks with varying executionpriority- •unican.es [PDF]

MG Harbour, MH Klein, JP Lehoczky - Real-Time Systems Symposium, 1991. Proceedings., Twelfth, 1991 - ieeexplore.ieee.org

... Assumption 1: Subtasks executing at a given **priority level** can be ... rir, p < r, has

a rela- tively **high** priority, Pip ... The possibility that a **task**'s deadline, ...

Cited by 158 - Related articles - Web Search - All 3 versions

Implementing a general real-time scheduling framework in theRED-Linux real-time kernel- •kfupm.edu.sa [PDF]

YC Wang, KJ Lin - Real-Time Systems Symposium, 1999. Proceedings. The 20th ..., 1999 - ieeexplore.ieee.org

... of the system builder to choose an **operating system** that may ... ecute at either an upper

or lower band **priority level**. ... given share as defined by the **task** execution ...

Cited by 92 - Related articles - Web Search - All 15 versions

[PS] →Real-time linux

M Barabanov, V Yodaiken - Linux journal, 1996 - lahtermaher.org
... priority level = 4, stack size = 3000 bytes */ /* pass 1 to ... work to be done, the
RT operating system runs one ... So Linux is the lowest priority task of the RT ...
Cited by 71 - Related articles - View as HTML - Web Search - All 11 versions

[PDF] →A library implementation of POSIX threads under UNIX

F Mueller - Proceedings of the USENIX Conference, 1993 - moss.csc.ncsu.edu
... can be used to implement Ada tasks or to ... have to execute at the priority level of
the ... a true library implementation, calls to the operating system kernel need ...
Cited by 198 - Related articles - View as HTML - Web Search - All 20 versions

The Click modular router- →psu.edu [PDF]

E Kohler, R Morris, B Chen, J Jannotti, MF ... - ACM Transactions on Computer Systems (TOCS), 2000 - portal.acm.org
... the Click IP router to handle specialized routing tasks, or use ... priority levels;
—fairness among the connections within each priority level; —RED dropping ...
Cited by 328 - Related articles - Web Search - Library Search - BL Direct - All 67 versions

On-line scheduling of hard deadline aperiodic tasks in fixed-priority systems

S Ramos-Thuel, JP Lehoczky - Real-Time Systems Symposium, 1993., Proceedings., 1993 - ieeexplore.ieee.org
... n. Aperiodic task execution at priority level n + 1 is ... model permits the inclusion
of many operating system functions and task synchronization using ...
Cited by 104 - Related articles - Web Search - All 9 versions

Emulating soft real-time scheduling using traditional operating system schedulers- →psu.edu [PDF]

B Adelberg, H Garcia-Molina, B Kao - Real-Time Systems Symposium, 1994., Proceedings., 1994 - ieeexplore.ieee.org
... with our goal of setting process priorities and then letting the operating system
handle everything ... If a new task arrives and no priority level is available ...
Cited by 49 - Related articles - Web Search - Library Search - All 16 versions

Borrowed-virtual-time (BVT) scheduling: supporting latency-sensitive threads in a general-purpose ...- →ucsc.edu [PDF]

KJ Duda, DR Cheriton - ACM SIGOPS Operating Systems Review, 1999 - portal.acm.org
... algorithm that allows a sin- gle operating system kernel to ... a strict priority scheduler
would allow a high ... The Ui parameter prevents a periodic task from using ...
Cited by 151 - Related articles - Web Search - BL Direct - All 39 versions

Scheduling aperiodic tasks in dynamic priority systems- →psu.edu [PDF]

M Spuri, G Buttazzo - Real-Time Systems, 1996 - Springer
... An operating system capable of guaranteeing and executing tasks ... already "allocated"
to a priority level corresponding to its deadline when the task set has ...
Cited by 268 - Related articles - Web Search - BL Direct - All 20 versions

Power-aware QoS management in web servers- *virginia.edu [PDF]

V Shanna, A Thomas, T Abdelzaher, K Skadron, Z Lu - 24th IEEE Real-Time Systems Symposium, 2003. RTSS 2003, 2003 - ieeexplore.ieee.org

... FIFO enables FIFO scheduling within each **priority level** with preemp ... to use the standard
Linux **operating system** and a ... rameters like the arrival time of the **task**. ...

Cited by 94 - Related articles - Web Search - All 17 versions

Operating system issues for continuous media- *psu.edu [PDF]

H Schulzrinne - Multimedia Systems, 1996 - Springer

... The **priority level** is adjusted only if a process exhausts ... and Layland show that,
for periodic **tasks**, n ... EDF scheduling within the UNIX **operating system** has been ...

Cited by 25 - Related articles - Web Search - BL Direct - All 20 versions

[PDF] *TrueTime: Real-time control system simulation with MATLAB/Simulink

D Henriksson, A Cervin, KE Årzén - Proceedings of the Nordic MATLAB Conference, Copenhagen, ..., 2003 - control.lth.se

... The **operating system** typically uses multipro- gramming to multiplex ... a **task**, but is
scheduled on a higher **priority level**. ... **low** signal means that the **task** is idle ...

Cited by 37 - Related articles - View as HTML - Web Search - All 2 versions

The arts real-time object model

CW Mercer, H Tokuda - Real-Time Systems Symposium, 1990. Proceedings., 11th, 1990 - ieeexplore.ieee.org

... model is more appropriate for a real-time **operating system**. ... to allow the system to
manage the **task** set in ... Each thread is assigned a **priority level** which may or ...

Cited by 33 - Related articles - Web Search - All 3 versions

[PDF] *Sources of unbounded priority inversions in real-time systems and a comparative study of possible ...

S Davari, L Sha, Research Institute for Computing ... - ACM SIGOPS Operating Systems Review, 1992 - ntrs.nasa.gov

... **tasks** in hard real-time systems[l, 2]. In RMS, a periodic **task** with **high** rate is
given higher priority. ... **high** priority **tasks** get queued up behind ...

Cited by 36 - Related articles - View as HTML - Web Search - Library Search - All 5 versions

System and method for dynamic resource management across tasks in real-time operating systems

D Culbert - US Patent 5,838,968, 1998 - Google Patents

... allows for resource cooperation between time critical **high** priority **tasks** ... drive,
or off-line storage used by the **operating system** to save **task** context state ...

Cited by 24 - Related articles - Web Search - All 2 versions

Responsive, deterministic IEEE 802.5 token ring scheduling

JK Strosnider, TE Marchok - Real-Time Systems, 1989 - Springer

... also by time- constrained **operating system** functions invoked on ... to messages within
the same **priority level**. ... algorithms address periodic **task**/message scheduling ...

Cited by 59 - Related articles - Web Search - All 2 versions

Monitor for **priority level** of **task** in information processing system

H Soga - US Patent 4,145,735, 1979 - Google Patents
... quently shows the frequency of use of the **priority level**. ... N and the abscissa shows
each **task** of priority ... possible to add on an **operating system** and interface ...
Cited by 17 - Related articles - Web Search - All 2 versions

Distributed scheduling of tasks with deadlines and resourcerequirements- ◦googlecode.com [PDF]

K Ramamritham, JA Stankovic, W Zhao - IEEE Transactions on Computers, 1989 - ieeexplore.ieee.org
... In this section, we provide a very **high**-level overview of the algorithms. ... When NI
has a **task** that is not locally guaranteed, it determines the node with the ...
Cited by 271 - Related articles - Web Search - Library Search - All 9 versions

Operating System Modifications for Task-Based Speed and Voltage- ◦kfupm.edu.sa [PDF]

JR Lorch, AJ Smith - Proceedings of the 1st international conference on Mobile ..., 2003 - portal.acm.org
... it would run even when the **operating system** was upgraded. ... in Section 2.4: we consider
a **task** complete when ... the system above the idle **priority level** are blocked ...
Cited by 48 - Related articles - Web Search - All 12 versions

... and non-preemptive scheduling and execution of program threads in a multitasking **operating system**

JA Farrell, SE Record, BK Wade - US Patent 5,247,675, 1993 - Google Patents
... be programmed to voluntarily relinquish control of its titasking **operating**
system. ... have the same **priority level**. A **task** control block is ...
Cited by 37 - Related articles - Web Search - All 4 versions

Providing differentiated levels of service in web content hosting- ◦kfupm.edu.sa [PDF]

J Almeida, M Dabu, P Cao - In First Workshop on Internet Server Performance, 1998 - eprints.kfupm.edu.sa
... that originally was running on that **priority level**. ... there are many **high**-
priorityrequestswaiting,whiletheuser ... running the Solaris **operating system** (version ...
Cited by 152 - Related articles - View as HTML - Web Search - All 11 versions

Performance evaluation of service differentiating Internet servers- ◦psu.edu [PDF]

X Chen, P Mohapatra - IEEE Transactions on Computers, 2002 - ieeexplore.ieee.org
... each **task** is granted an appropriate **priority level** based on ... The **task** initiator T
I picks up requests ... length is limited by the **operating system** constraints and ...
Cited by 82 - Related articles - Web Search - BL Direct - All 10 versions

Dynamic scheduling for soft real-time distributed object systems- ◦ucr.edu [PS]

V Kalogeraki, PM Melliar-Smith, LE Moser - Third IEEE International Symposium on Object-Oriented Real- ..., 2000 - ieeexplore.ieee.org
... **OPERATING SYSTEM** CORBA ORB CORBA ORB ... An object with **low** importance can delay the
execution of a **high** importance **task**. Object importance is used to Page 3. ...
Cited by 58 - Related articles - Web Search - All 5 versions

How does control timing affect performance? Analysis and simulation of timing using Jitterbug and ...- ◦[th.se [PDF]

A Cervin, D Henriksson, B Lincoln, J Eker, KE ... - IEEE Control Systems Magazine, 2003 - ieeexplore.ieee.org
... The **operating system** typically uses multi- programming to multiplex the execution
of ... controller **tasks**. ... (A real implementation would include a **low**-pass filter ...

Operating system architecture using multiple priority light weight kernel **task** based interrupt ...

M Bunnell - US Patent 5,469,571, 1995 - Google Patents
... state, by the scheduler of the **operating system** kernel. ... The interrupt server **task**
may further provide for ... with the present invention, the **priority level** of the ...

[PDF] ◦The design of the TAO real-time object request broker

DC Schmidt, DL Levine, S Mungee - Computer Communications, 1998 - citeseerx.ist.psu.edu
... of TAO, which is our **high**-performance, real ... and maintaining distributed applications
using **low**-level network ... automate common network pro- gramming **tasks** such as ...

[PDF] ◦A model for an intelligent **operating system** for executing image understanding tasks on a ...

CH Chu, EJ Delp, LH Jamieson, HJ Siegel, FJ Weil, ... - Journal of Parallel and Distributed Computing, 1989 - engr.colostate.edu
... a unique name, an optional **priority level**, and an ... simple example image understanding
task is presented ... parallel processor by the Intelligent **Operating System**. ...

[PDF] ◦Generalized rate-monotonic scheduling theory: A framework for developing real-time systems

L Sha, R Rajkumar, SS Sathaye - PROCEEDINGS-IEEE, 1994 - cs.ust.hk
... in our example as the station backplane and **operating system**, respectively. ... of priority
inversion, which occurs when a **high** priority **task** is prevented ...

Open system architecture modular tool kit for motion and machining process control

NA Erol, Y Altintas, MR Ito, SS Inc, BC Burnaby - IEEE/ASME transactions on mechatronics, 2000 - ieeexplore.ieee.org
... moved to the ready queue in accordance with its **priority level**. ... be considered to
be a soft real-time **operating system**. ... time is not adequate, the **task** does not ...

Programmable controller with multiple **priority level task** processing

MA Flood, MD Kalan, PN Pres, AL Peterson... - US Patent 5,193,189, 1993 - Google Patents
... 54] PROGRAMMABLE CONTROLLER WITH MULTIPLE **PRIORITY LEVEL TASK** PROCESSING [75 ... When
the **operating system** accesses the location at ... than any background **tasks** to be ...

Scheduling techniques for reducing leakage power in hard real-time systems

YH Lee, KP Reddy, CM Krishna - Real-Time Systems, 2003. Proceedings. 15th Euromicro ..., 2003 - ieeexplore.ieee.org

... by any soft **task** executing at a **priority level** in the ... mode must be done gracefully
under **operating system** control ... **Task** periods are selected from the range 10 ms ...

Thoth, a portable real-time operating system- *ucsd.edu* [PDF]

DR Cheriton, MA Malcolm, LS Melen, GR Sager - 1979 - portal.acm.org

... of the new process; the default **priority level** is 0 ... **Operating system** portability
is aimed at a problem most ... Moreover a major **task** for the manufac- turer of a ...

[PDF] *Timing analysis for fixed-priority scheduling of hard real-time systems

MG Harbour, MH Klein, JP Lehoczky - IEEE Transactions on Software Engineering, 1994 - ctr.unican.es

... The cause of this phenomenon is the **high** priority accorded to τ ... P , $1 \leq j \leq m(i)$
denote the minimum **priority level** of all of the subtasks of **task** τ ...

Flexible control of parallelism in a multiprocessor PC router- *mit.edu* [PDF]

B Chen, R Morris - Proceedings of the 2001 USENIX Annual Technical Conference, 2001 - usenix.org

... Each **priority level** is queued separately, and the ... RFC 2401, Internet Engineering
Task Force, November 1998. ... and Implementation of the 4.4BSD **Operating System**. ...

Priority inheritance in soft real-time databases

J Huang, JA Stankovic, K Ramamritham, D Towsley, B ... - Real-Time Systems, 1992 - Springer

... eventually returns to its original **priority level** after releasing ... real-time systems
where **task** conflicts over ... the underlying VAX/VMS **operating system** real-time ...

[PS] *Operating system support for coexistence of real-time and conventional scheduling

DB Golub, CARNEGIE-MELLON UNIV PITTSBURGH PA ... - 1994 - reports-archive.adm.cs.cmu.edu

... real-time applications to make full use of the hardware and **operating system**. ... policies
use an array of 32 queues, one per **priority level**. ... **Task** priority values: ...

Panoptes: scalable low-power video sensor networking technologies- *kfupm.edu.sa* [PDF]

W Feng, E Kaiser, WC Feng, M Le Baillif - ACM Transactions on Multimedia Computing, Communications, ..., 2005 - portal.acm.org

... that we have developed uses the Linux **operating system**. ... Within a **priority level**,
data is dropped in order from ... to the system when moving doing multiple **tasks**. ...

[PDF] ⸱The performance of μ-kernel-based systems

H Hartig, M Hohmuth, J Liedtke, S Schonberg, J ... - 16th ACM Symposium on **Operating System** Principles (SOSP), 1997 - inso.tuwien.ac.at
... problem of porting an existing mono- lithic **operating system** to a μ ... the bottom-half
thread on a **priority level** above that ... is im- plemented as an L4 **task**, ie an ...
Cited by 252 - Related articles - View as HTML - Web Search - BL Direct - All 53 versions

Instruction level mechanisms for accurate real-time **task** scheduling- ⸱umich.edu

RA Volz - deepblue.lib.umich.edu
... the scheduler in a real-time **operating system** [3]. In ... several priority queues, one
for each **priority level**. ... been proposed for specifying **task** timing information ...
Cited by 21 - Related articles - Cached - Web Search - All 6 versions

High-speed data acquisition with the Solaris and Linux operating systems

M Zilker, P Heimann - Fusion Engineering and Design, 2000 - Elsevier
... The global **priority level** (0– 159) is computed at least ... delayed until the real-time
task is completed ... all the services provided by the Linux **operating system**. ...
Cited by 8 - Related articles - Web Search - All 3 versions

[PDF] ⸱Emeralds-osek: A small real-time **operating system** for automotive control and monitoring

KM Zuberi, P Pillai, KG Shin, T Imai, W Nagaura, S ... - SAE transactions, 2000 - stockholm1.mit.edu
... and are evaluat- ing the use of EMERALDS-OSEK as the **operating system** for such a ...
is more efficient, but is lim- ited to only one **task** per **priority level**. ...
Cited by 12 - Related articles - View as HTML - Web Search - BL Direct - All 9 versions

Toward a discipline of real-time programming- ⸱europrog.ru [PDF]

N Wirth - 1977 - portal.acm.org
... The first step constitutes a **task** in "ordinary ... number of terms-might easily become
unacceptably **high**. ... shared processor, when operating at **priority level** p, is ...
Cited by 147 - Related articles - Web Search - All 10 versions

[PDF] ⸱User level scheduling of communicating real-time tasks

C Shen, O Gonzalez, K Ramamritham, I Mizunuma, H ... - Proceedings of the Fifth IEEE Real-Time Technology and ..., 1999 - merl.com
... four priority bands P highest P **high** P mid P ... The specic **operating system** priority
levels these bands occupy depends ... All **tasks** of an SB application are assigned ...
Cited by 15 - Related articles - View as HTML - Web Search - All 10 versions

Worst-case execution time analysis of the RTEMS real-time operatingsystem- ⸱psu.edu [PDF]

A Colin, I Puaut, R IRISA - Real-Time Systems, 13th Euromicro Conference on, 2001., 2001 - ieeexplore.ieee.org
... **operating system** is that it contains **low** level code to ... dynamic memory management, -
high level of ... by 17 mod- ules (namely initialization, **task**, interrupt, clock ...
Cited by 52 - Related articles - Web Search - All 11 versions

TOMAL-a high-level programming language for microprocessor process control applications

RB Kieburtz, JL Hennessy - ACM SIGPLAN Notices, 1976 - portal.acm.org

... It may simply have a static **priority level** assigned to ... response time of the higher

priority **task** can he ... employed in the design of the **operating system** for the ...

Cited by 17 - Related articles - Web Search - All 4 versions

[PDF] ᐧPreemptive priority based scheduling: An appropriate engineering approach

A Burns - 1993 - eprints.kfupm.edu.sa

... It should be noted that a full **operating system** is not required, only a micro-kernel

Page 4. - 4 - ... If a **high** priority **task** is now runnable then the ...

Cited by 159 - Related articles - View as HTML - Web Search - Library Search - All 17 versions

Engineering and analysis of fixed priority schedulers

DI Katcher, H Arakawa, JK Strosnider - IEEE Transactions on Software Engineering, 1993 - ieeexplore.ieee.org

... implementations, we must fully understand the mechanisms of the **operating system**

and the ... 4) An idle **task** runs at the lowest **priority level** when no other ...

Cited by 167 - Related articles - Web Search - BL Direct - All 8 versions

[CITATION] Meglos: An operating system for a multiprocessor environment

PD Gaglianello, HP Katseff - Proceedings, 1985 - Computer Society Press

Cited by 18 - Related articles - Web Search

Rate monotonic vs. EDF: Judgment day- ᐧsssup.it [PDF]

GC Buttazzo - Real-Time Systems, 2005 - Springer

... on top of a generic priority based **operating system**, from the ... queue into several

FIFO queues, one for each **priority level**. ... case, the insertion of a **task** in the ...

Cited by 127 - Related articles - Web Search - BL Direct - All 19 versions

Dynamic resource allocation scheme for distributed heterogeneous computer systems

HT Liu, JA Silvester - US Patent 5,031,089, 1991 - Google Patents

... as best it can to do the **tasks** at hand ... all nodes are either idle (ie there is **low**

traffic intensity) or are busy (ie there is **high** traffic intensity). ...

Cited by 64 - Related articles - Web Search - All 2 versions

Wireless sensor networks: a survey- ᐧuecs.br [PDF]

IF Akyildiz, W Su, Y Sankarasubramaniam, E Cayirci - Computer networks, 2002 - Elsevier

... 71], and the frequency re-use is **high** due to ... A multithreaded I-OS **operating system**

is run on IAMPS wireless ... Most of the sensing **tasks** require the knowledge of ...

Cited by 3046 - Related articles - Web Search - All 63 versions

[PDF] •An empirical evaluation of OS support for real-time CORBA object request brokers

DL Levine, S Flores-Gaitan, DC Schmidt - Proceedings of the Multimedia Computing and Networking 2000 ..., 2000 - citeseerx.ist.psu.edu

... **Operating system** and compiler overview: We ran the ORB/OS benchmarks described in this paper on two real-time operating ... Both **high**- and **low**-priority clients ...

Cited by 31 - Related articles - View as HTML - Web Search - All 30 versions

[PDF] •ERCOS: an **operating system** for automotive applications

S Poledna, T Mocken, J Schiemann, T Beck - 1996 - cs.umbc.edu

... also possible to implement switching points by **operating system** calls ... cooperative scheduler is treated as a single **task** at the lowest **priority level** of the ...

Cited by 22 - Related articles - Web Search - Library Search - All 4 versions

Compiler support for software-based cache partitioning- •kfupm.edu.sa [PDF]

F Mueller - ACM Sigplan Notices, 1995 - portal.acm.org

... to create p partitions, one for each used **priority level**. ... The **operating system** also has to provide the facil ... be associated with the cache partition of one **task**. ...

Cited by 81 - Related articles - Web Search - BL Direct - All 12 versions

•POWER5 system microarchitecture

B Sinharoy, RN Kalla, JM Tendler, RJ Eickemeyer ... - IBM Journal of Research and Development, 2005 - research.ibm.com

... To the **operating system**, the chip appears as a four ... **task** than to a thread running a background **task**. ... threads are at the lowest running **priority** (**level** 1), the ...

Cited by 128 - Related articles - Cached - Web Search - BL Direct - All 6 versions

[PDF] •Scheduling slack time in fixed priority pre-emptive systems

RI Davis, KW Tindell, A Burns - 1993 - citeseerx.ist.psu.edu

... one or more **tasks** of active **priority level** i or ... data is available via the **operating system**, (typically derived from data stored in a **task** control block ...

Cited by 195 - Related articles - View as HTML - Web Search - Library Search - All 18 versions

The benefits of event: driven energy accounting in power-sensitive systems

F Bellosa - ... : beyond the PC: new challenges for the **operating system**, 2000 - portal.acm.org

... that should be boosted to a **priority level** above the ... If the **operating system** technology is ready to deal with a ... scheduling of hard real-time **tasks** on variable ...

Cited by 89 - Related articles - Web Search - All 7 versions

Interrupt control architecture for symmetrical multiprocessing system

D Gephardt, R Mahalingaiah - US Patent 5,555,430, 1996 - Google Patents

... by the cen- tral interrupt control unit to sequentially provide broadcast interrupts to various processing units -based on their current **task** priority values. ...

Cited by 28 - Related articles - Web Search - All 2 versions

*Operating system support for multi-user, remote, graphical interaction

AY Wong, M Seltzer - usenix.org

... The default **priority level** for foreground threads is 9 and ... with the scheduling
modifications, the **task** would be ... of how the server-side **operating system** can be ...

Cited by 15 - Related articles - Cached - Web Search - All 5 versions

New results on fixed priority aperiodic servers- *psu.edu [PDF]

G Bernat, A Burns - Real-Time Systems Symposium, 1999. Proceedings. The 20th ..., 1999 - ieeexplore.ieee.org

... a standard API to the **operating system**, of particular ... this hypothesis allowing a
server at any **priority level**. ... However, for **task** sets where may be smaller than ...

Cited by 49 - Related articles - Web Search - All 11 versions

[PDF] *Adding instruction cache effect to schedulability analysis of preemptive real-time systems

JV Busquets-Mataix, JJ Serrano, R Ors, P Gil, A ... - 1995 - citeseerx.ist.psu.edu

... real traces, and takes into account the **operating system** im- pact ... ie **tasks** do not
share the same **priority level**). ... time for the highest priority **task** is trivial ...

Cited by 82 - Related articles - View as HTML - Web Search - Library Search - All 10 versions

The design, implementation and evaluation of SMART: A scheduler for multimedia applications- *kfupm.edu.sa [PDF]

J Nieh, MS Lam - ACM SIGOPS Operating Systems Review, 1997 - portal.acm.org

... give interactive and real-time **tasks** bet- ter ... of the scheduler in the Solaris UNIX
operating system. ... the applications in the default **priority level** with equal ...

Cited by 288 - Related articles - Web Search - Library Search - BL Direct - All 48 versions

The EDS parallel relational database system

P Watson, P Townsend - Parallel Database Systems, 1991 - Springer

... The Chorus **Operating System** [8] was used as a ... which simplifies the programmer's **task**
and assists ... unordered communications port for each thread **priority level**). ...

Cited by 19 - Related articles - Web Search - All 3 versions

Method of processing an operating system in a multi-processor system

K Nakane, T Kamiuchi, H Nakanishi - US Patent 4,494,188, 1985 - Google Patents

... for processing the for an **operating system** (hereinafter abbreviated ... the execution
of the user's **task** may be ... process to be executed, a **priority level** (OLVL) 520 ...

Cited by 17 - Related articles - Web Search - All 2 versions

Method and apparatus for optimizing user response time in a priority preemptive operating system

TC Waldron III - US Patent 5,426,739, 1995 - Google Patents

... process will set its priority to the **high**- 55 usable ... policies of said priority
pre-emptive **operating system**, said **task priority level** corresponding to a ...

Cited by 10 - Related articles - Web Search - All 2 versions

HLA real-time extension- *insa-lyon.fr [PDF]

H Zhao, ND Georganas - Distributed Simulation and Real-Time Applications, Fifth ..., 2001 - ieeexplore.ieee.org
... Table 4 Map to **operating system** and network The **priority level** parameter can be ... priority
to the am'butelinteraction updatingkending related **task**. ...
Cited by 19 - Related articles - Web Search - BL Direct - All 12 versions

The human-robot interaction **operating system**- *nasa.gov [PDF]

T Fong, C Kunz, LM Hiatt, M Bugajska - Proceedings of the 1st ACM SIGCHI/SIGART conference on Human ..., 2006 - portal.acm.org
... 1: The Human-Robot Interaction **Operating System** (HRI/OS ... working (ie, waiting for
a **task** to be ... by query attributes (**priority level**, expiration time, etc.), query ...
Cited by 28 - Related articles - Web Search - All 13 versions

Fixed priority scheduling theory for hard real-time systems

JP Lehoczky, L Sha, JK Strosnider, H Tokuda - Foundations of Real-Time Computing: Scheduling and Resource .., 1991 - books.google.com
... The ARTS **operating system** supports the scheduling theory de ... of blocking a **high** priority
task, but it continues to execute at its original **priority level**. ...
Cited by 62 - Related articles - Web Search

[PDF] *Vsched: Mixing batch and interactive virtual machines using periodic real-time scheduling

B Lin, P Dinda - Proceedings of ACM/IEEE SC 2005 (Supercomputing), 2005 - cs.northwestern.edu
... kernel and requires that the hosted **operating system** be ported ... No other processes
at this **priority level** are allowed ... Since a **task** can miss its deadline only at ...
Cited by 56 - Related articles - View as HTML - Web Search - All 13 versions

SIFT: Design and analysis of a fault-tolerant computer for aircraft control

JH Wensley, L Lamport, J Goldberg, MW Green, KN ... - Proceedings of the IEEE, 1978 - ieeexplore.ieee.org
... Several **low**-level techniques for fault tolerance, such ... memory 'e connected by a
conventional **high** bandwidth connection ... data to each iteration of a **task** is the ...
Cited by 374 - Related articles - Web Search - All 6 versions

Evolving Mach 3.0 to a migrating thread model- *psu.edu [PDF]

B Ford, J Lepreau - Proceedings of the Winter 1994 USENIX Technical Conference ..., 1994 - usenix.org
... example, QNX20], a commercialreal-time **operating system**, supports only ... thread model,
when a client **task** performs an ... inversion 13], when a **high**-priority client ...
Cited by 116 - Related articles - Web Search - All 11 versions

Using adaptive priority scheduling for service differentiation QoS-aware Web servers

MM Teixeira, MJ Santana, RHC Santana - 2004 IEEE International Conference on Performance, Computing ..., 2004 - ieeexplore.ieee.org
... allows the tuning of the **priority level** provided and ... presented demands changes in
the **operating-system** kernel ... San- tana, "Analysis of **task** scheduling algorithms ...
Cited by 14 - Related articles - Web Search - All 2 versions

[PDF] *Dynamic and aggressive scheduling techniques for power-aware real-time systems

H Aydin, R Melhem, D Mossé, PM Alvarez - Proceedings of the 22nd IEEE Real-Time Systems Symposium (..., 2001 - cs.pitt.edu
... to the best-case execu- tion time can be as **high** as 10 in ... of the "default" speed
of 5 6 . For each **task** that is dispatched, the **operating system** sets E ...
Cited by 200 - Related articles - View as HTML - Web Search - All 15 versions

[PDF] *A software framework based on real-time CORBA for telerobotic systems

S Bottazzi, S Caselli, M Reggiani, M Amoretti - IEEE Int'l Conf. Intelligent Robots and Systems, 2002 - citeseerx.ist.psu.edu
... the execution of ac- tions composing the goal **task**. ... at the server is a **Priority Level**
Round Robin ... which is available in any POSIX- compliant **operating system**. ...
Cited by 22 - Related articles - View as HTML - Web Search - All 9 versions

Processor design for portable systems- *psu.edu [PDF]

TD Burd, RW Brodersen - The Journal of VLSI Signal Processing, 1996 - Springer
... software will be examined for achieving the ultimate in **low**-energy, **high**-performance
design ... the speed of computation to handle ever more demanding **tasks**. ...
Cited by 115 - Related articles - Web Search - BL Direct - All 17 versions

[PDF] *Resource sharing in hierarchical fixed priority pre-emptive systems

RI Davis, A Burns - Proc. of IEEE RTSS 06, 2006 - cs.york.ac.uk
... These sections may correspond to **operating system** calls or intervals ... of time during
which there is outstanding **task** execution at **priority level** i or ...
Cited by 26 - Related articles - View as HTML - Web Search - All 6 versions

[PDF] *Using Windows NT for real-time applications: Experimental observations and recommendations

K Ramamritham, C Shen, O Gonzalez, S Sen, SB ... - Proceedings of the Fourth IEEE Real-Time Technology and ..., 1998 - ssrc.cse.ucsc.edu
... time applications, a real-time **operating system** ought to ... a synergistic manner, the
needs of **tasks** having a ... class of its process and the **priority level** of the ...
Cited by 61 - Related articles - View as HTML - Web Search - All 26 versions

[PDF] *Switched Ethernet for factory communication

J Jasperneite, P Neumann - Proc. of IEEE International Conference on Emerging ... - citeseerx.ist.psu.edu
... In this study, **priority level** is assigned according to the ... In our scenario, the **task**
Network Control (MT ... in the protocol stack, the **operating system**, and the ...
Cited by 80 - Related articles - View as HTML - Web Search - All 7 versions

POSIX-compatible application-defined scheduling in MaRTE OS- *unican.es [PDF]

MA Rivas, MG Harbour - ieeexplore.ieee.org
... is currently implemented in our **operating system** MaRTE OS ... consistent scheduling of
Ada **tasks** and C ... by a faulty scheduler executing at a lower **priority level**. ...
Cited by 60 - Related articles - Web Search - All 9 versions

Prioritized load balancing among non-communicating processes in a time-sharing system

AJ Ransom, DJ Wiest ... - US Patent 6,148,324, 2000 - Google Patents

... 6,148,324 by **operating system** 118 may differ from the number of ... levels 4-7 would
map to **high** priority ... 2)—one for each sub- **task priority level**—are determined ...

Cited by 6 - Related articles - Web Search - All 4 versions

Mantis: System support for multimodal networks of in-situ sensors- *psu.edu [PDF]

H Abrach, S Bhatti, J Carlson, H Dai, J Rose, A ... - Proceedings of the 2nd ACM international conference on ..., 2003 - portal.acm.org

... and tail pointers for each **priority level** (5 by ... with the hardware to accomplish a
given **task**. ... MANTIS' uniform API and the underlying UNIX **operating system**. ...

Cited by 142 - Related articles - Web Search - All 25 versions

Mechanism for passing messages between several processors coupled through a shared intelligent ...
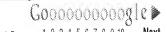
H Alaiwan - US Patent 5,357,612, 1994 - Google Patents

... the requested input, and the **priority level** of other ... to be retrieved by a **task** that
will ... MOS functions decomposition, every Local **Operating system** manages its ...

Cited by 35 - Related articles - Web Search - All 4 versions

Key authors: D Schmidt - L Sha - A Burns - J Mogul - A Wellings

Gooooooooogle ▶

Result Page: 1 2 3 4 5 6 7 8 9 10 **Next**

["operating system" and task and "pr[Search]